ENTERPRISE SOLUTIONS COUNCIL DATA ACCESS PROJECT

Financial Access Conceptual Design

Summary

The goal of the Enterprise Solutions Council Data Access Project is to establish an enterprise solution that addresses State Managers' financial, budgetary and human resources data access and analysis needs.

This conceptual design will discuss the proposed ESC Data Access System (ESCDAS) for financial information at a high level. Specific topics are:

- Schedule
- Assumptions
- Tools Techniques
- User Access
- Workbooks and Pivot Tables
- Data Requirements
- Proposed Names

Schedule

TASKS	TARGET DATE
Conceptual Design for ESC Data Access System	October 15, 2004
Present Conceptual Design to Process Owners and ESC Subcommittee	October 15, 2004
ESC Subcommittee and Process Owner Comments on Conceptual	October 20, 2004
Design	
Present Conceptual Design to full Enterprise Solutions Council	October 21, 2004
Technical Design	October 29, 2004
Development Work	January 10, 2005
Complete Testing & Rollout Preparation	January 31, 2005
ESC Reporting Subcommittee Complete Goal of Identifying Data	January 31, 2005
Access and Analysis Priorities	
End-User Briefings	January 31, 2005 –
	February 14, 2005
Rollout Target for ESC Data Access System	February 7, 2005

The timely receipt of comments on this Conceptual Design and the proposed workbooks is very important. Our deadline for comments is Wednesday, October 20.

Assumptions

- 1) Terry Johnson's Financial Information System (TJFIS) will serve as the foundation or baseline.
 - a) ESCDAS functionality will be similar in that it will be delivered through Excel pivot tables.
 - b) ESCDAS will provide data similar to that provided by TJFIS.
- 2) ECS Subcommittee priorities are:
 - a) Revenue and Expenditure
 - b) Budgets
 - c) Balance Sheet
 - d) Projects
 - e) Historical data a future enhancement
- 3) Projection workbooks are not being considered at this time.
- 4) The user interface will be relatively easy to find and use.
- 5) The system will support users from large agencies. They will be required to enter parameters so that the data returned will fit within the Excel limit of 65,536 rows.
- 6) Users want the ability to save sets of parameters so they can be easily re-used.
- 7) Users will have the security required.
- 8) Users will be able to save the workbook data that has been returned.
- 9) Chartfield descriptions will be included as part of the chartfield value.
- 10) The system will be supported by the SABHRS Services Bureau.
- 11) The system should be created so that with a future enhancement, the creation of the pivot tables can be scheduled.

Tools Techniques

ESCDAS will be deployed through the Internet by sending a HTML document to the user's web browser on their local computer. The document will contain information directing the web browser to use Microsoft Excel to open the document. The users will be able to do a "Save As" and save the document on their local drive or network file servers as Excel workbook.

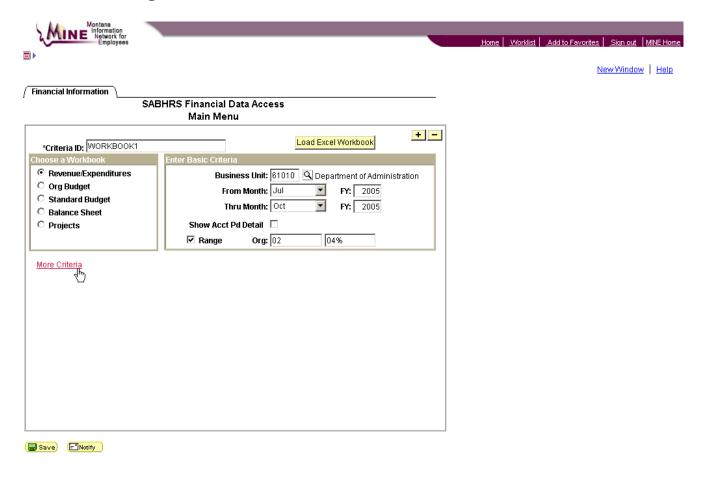
The specific techniques used include the creation of HTML objects in PeopleTools, creating dynamic SQL to retrieve data based on the users request, merging the data with the HTML object, writing the merged data to a Web Server, and sending it to the user's browser.

Performance of the system may not be as quick as TJFIS for several reasons, but primarily because TJFIS generally retrieves data and prepares the pivot tables once in the morning, while ESCDAS will be creating the pivot table when it is requested.

User Access

A link to ECSDAS will be located on the MINE. The MINE provides a central location already maintained for statewide access. After clicking on the link, the user's web browser will display a page from which the user can either create a new set of parameters or select a previously saved set of parameters.

Mine Access Page



The user will have the ability to select from the following Excel Workbooks:

Revenue and Expenditures

Projects

Org Budgets

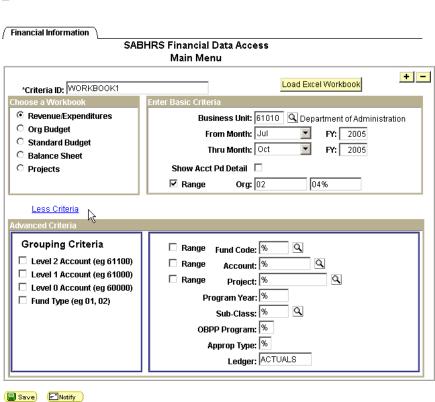
Standard Budgets

Balance Sheet

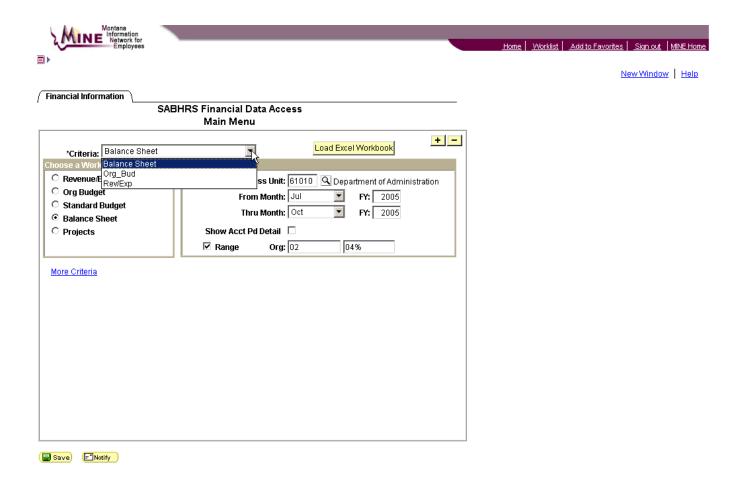
The user will also be able to specify more or less criteria based upon their needs. The business unit criteria will be defaulted to the user's BU. The month criteria will default to the current month. Other criteria will default to "all". The user can choose the "More Criteria" link and enter criteria for Account, Fund, Project, etc. These criteria will also default to "all". The user will also be able to select grouping criteria.

New Window | Help





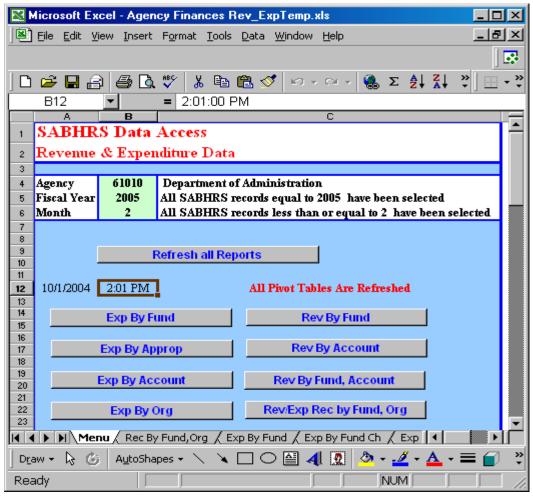
Previously saved sets of criteria will be available utilizing the Criteria Id dropdown.



Workbooks and Pivot Tables

Pressing the "Load Excel WorkBook" button shown above will deliver an Excel Workbook to the user's desktop. Our goal is to provide the users with a menu page for each workbook such as the Revenue and Expenditure example on the next page. If the number of rows which will be returned exceeds the Excel limit of 65,536 rows, the system will issue a message to the user requesting additional criteria. The system will not provide truncated data.

Revenue and Expenditure Workbook Menu

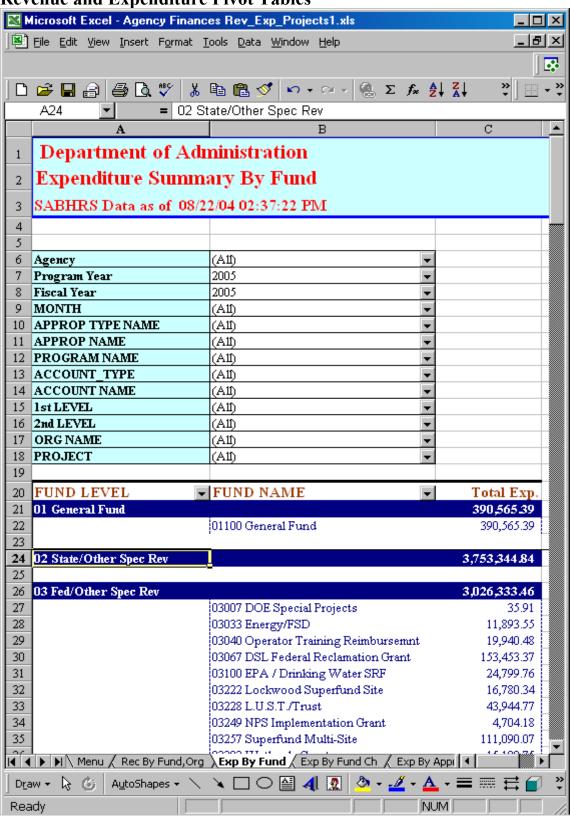


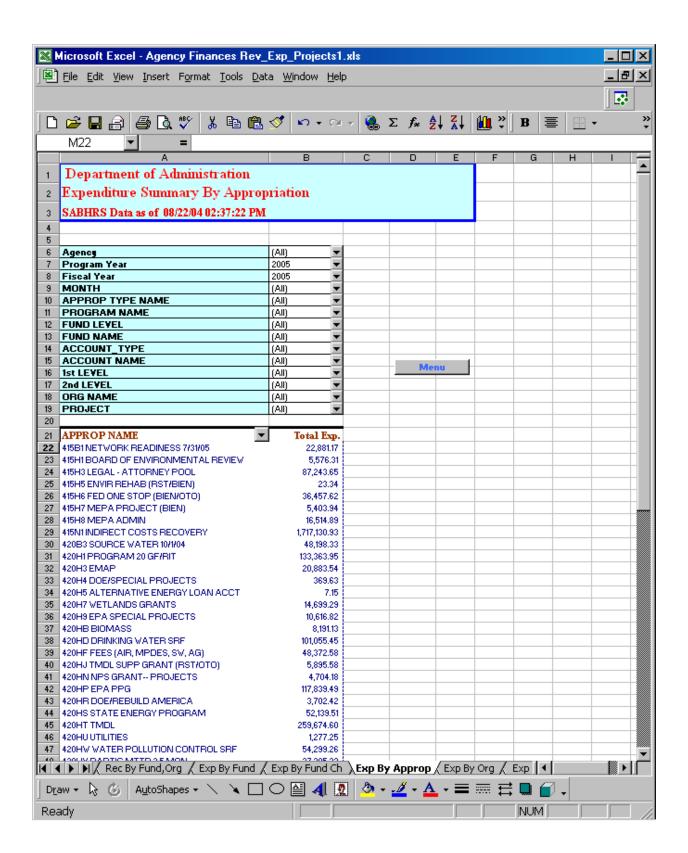
The user will be able to select which Pivot Table to view by clicking on the appropriate button.

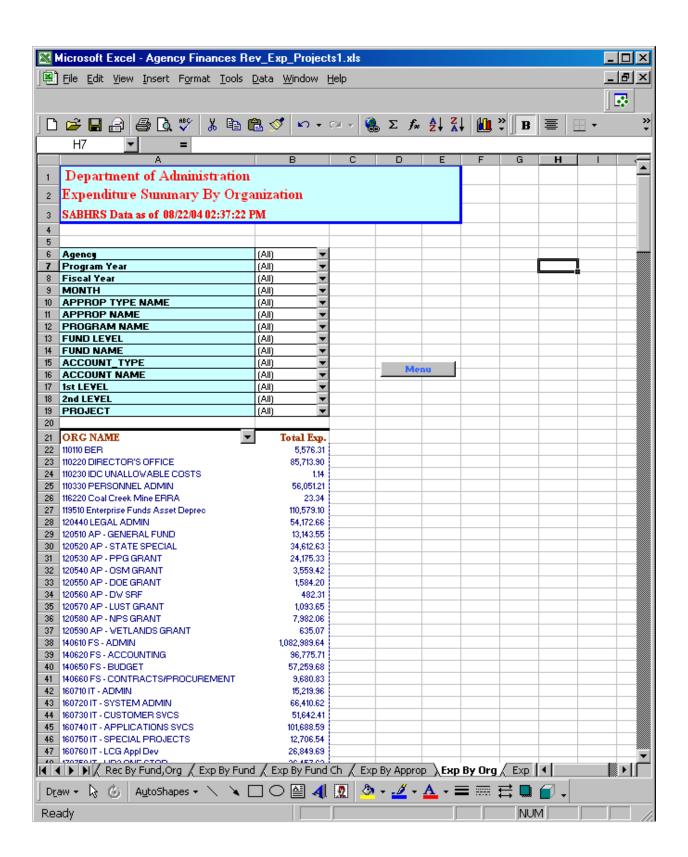
The following pages provide images of the Revenue and Expenditures, Projects, Org Budgets, Standard Budgets, and Balance Sheet workbook pivot tables. These images of the pivot tables are conceptual in nature. We expect to modify them in modest ways as we develop them technically. Specific suggestions include:

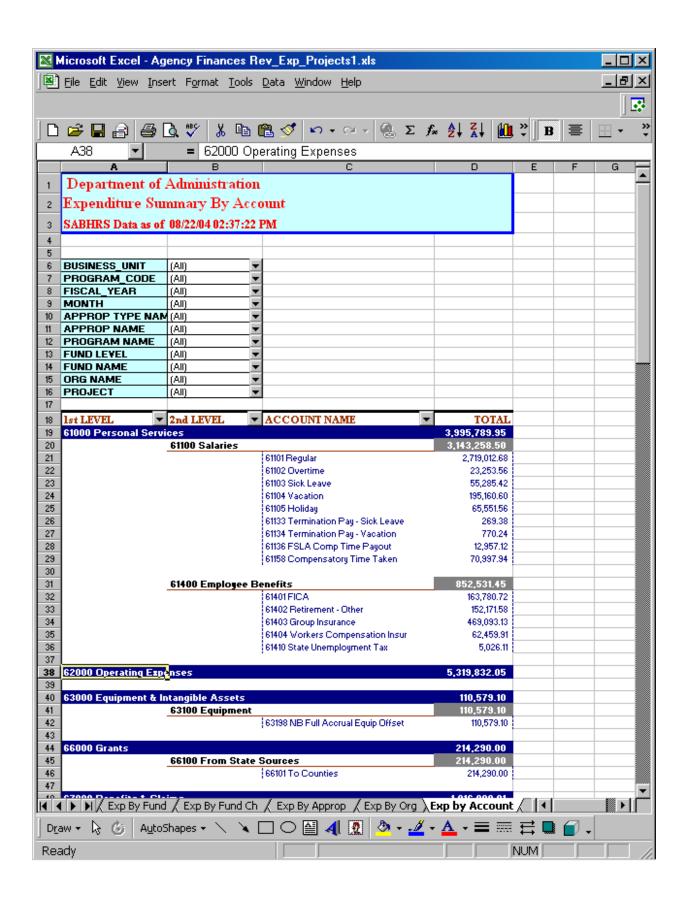
- Adding all available fields onto the page for each pivot table;
- Removing the color red in negative numbers;
- Shortening the text string for some fields such as Fund Level, 01 or 02 vs. 01000 or 02000; and,
- More descriptive accounting periods/months such as 01-Jul, 02-Aug, 03-Sep instead of 1, 2, 3, 4, etc.

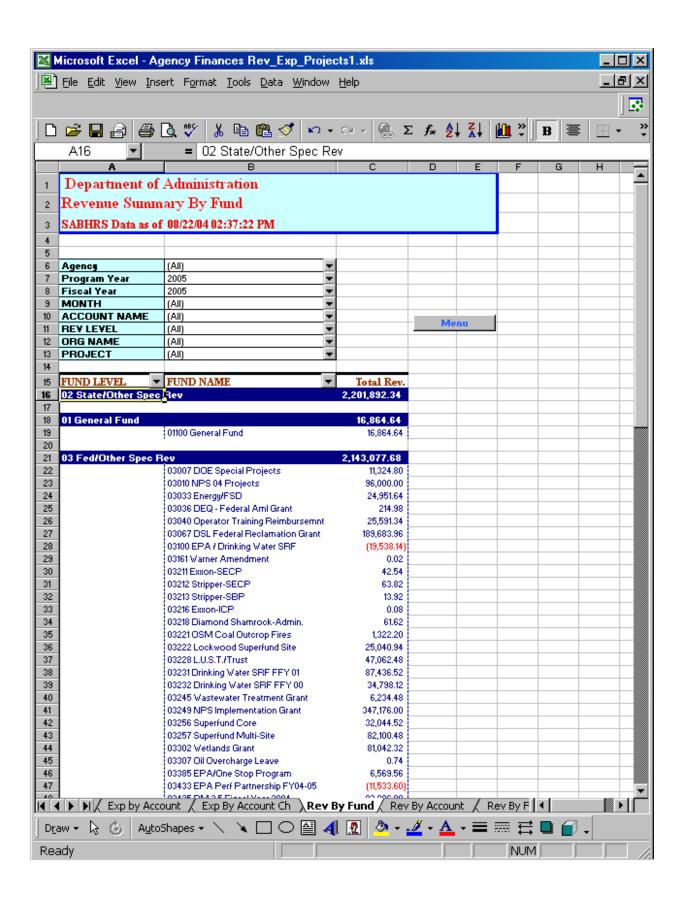
Revenue and Expenditure Pivot Tables

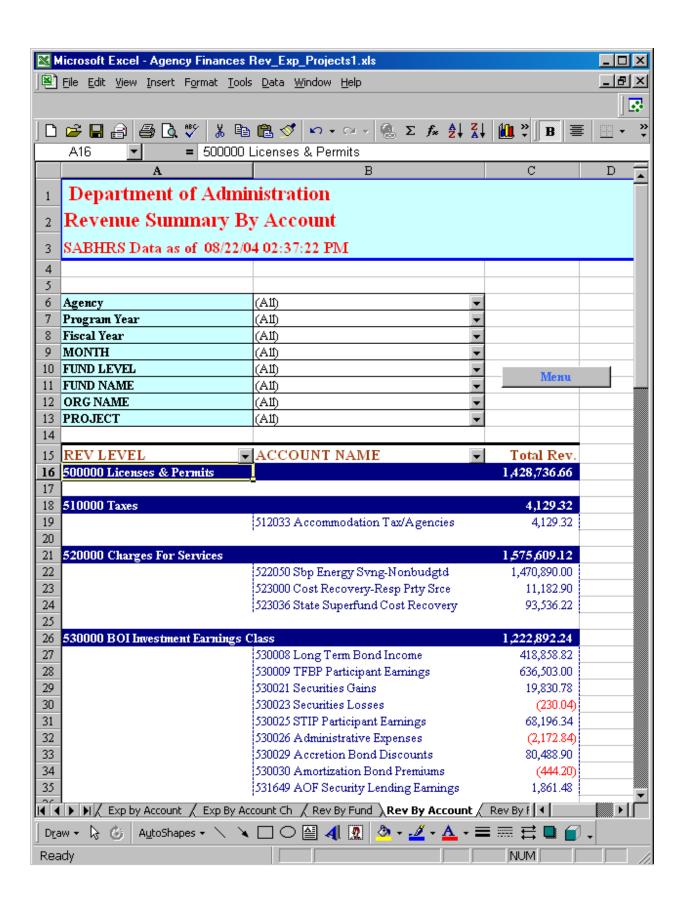


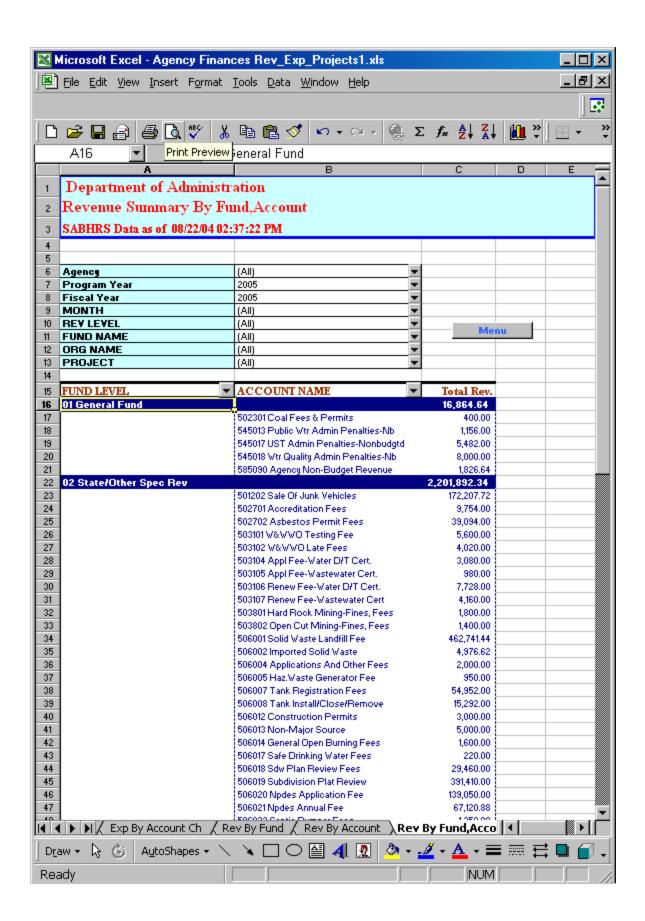


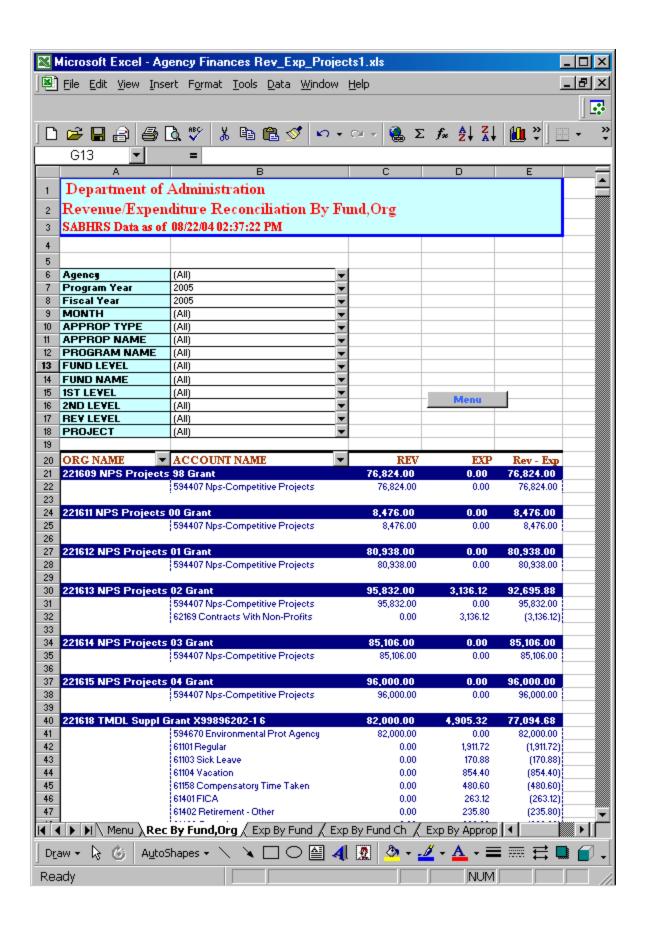












Revenue and Expenditure Data Fields

Expenditure data may include these fields:

Business_Unit

Program_Code

Fiscal_Year

Account Name

Approp Name

Fund Name

Org Name

Program Name

Total

Month

First Level

Second Level

Approp Type Name

Fund Level

Account_Type

Project_id

Revenue data may include these fields:

Business Unit

Program Code

Fiscal_Year

Account Name

Fund Name

Org Name

Total

Month

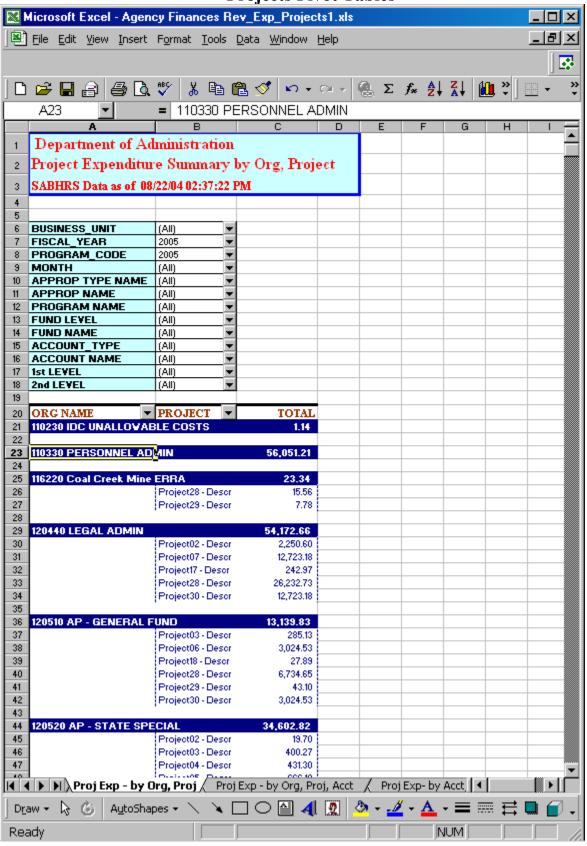
Rev Level

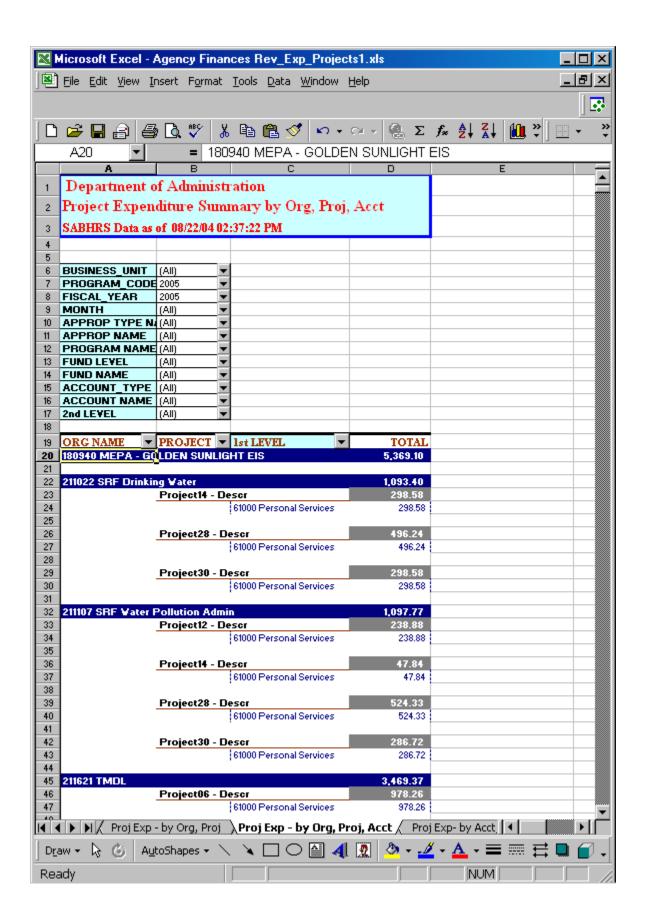
Fund Level

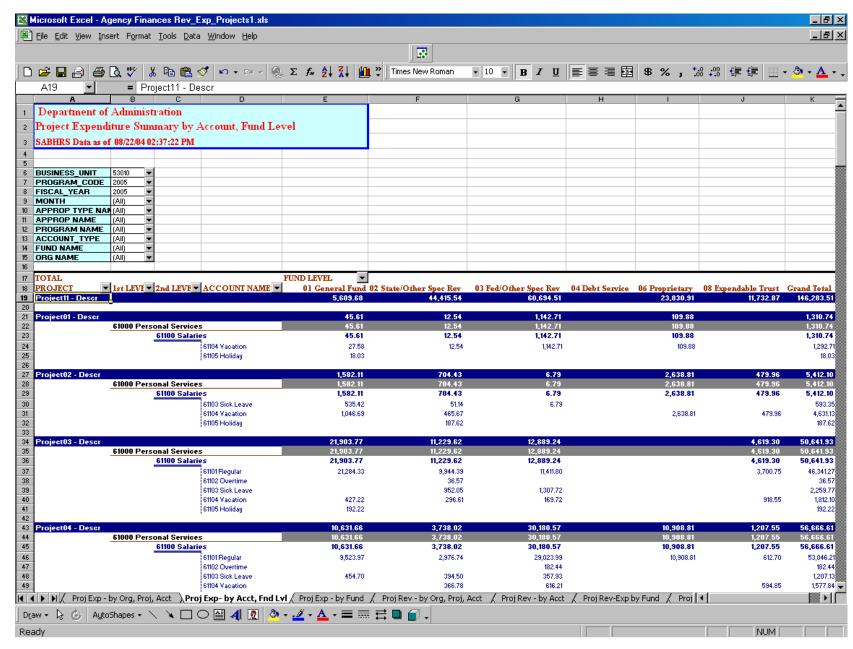
Funding Name

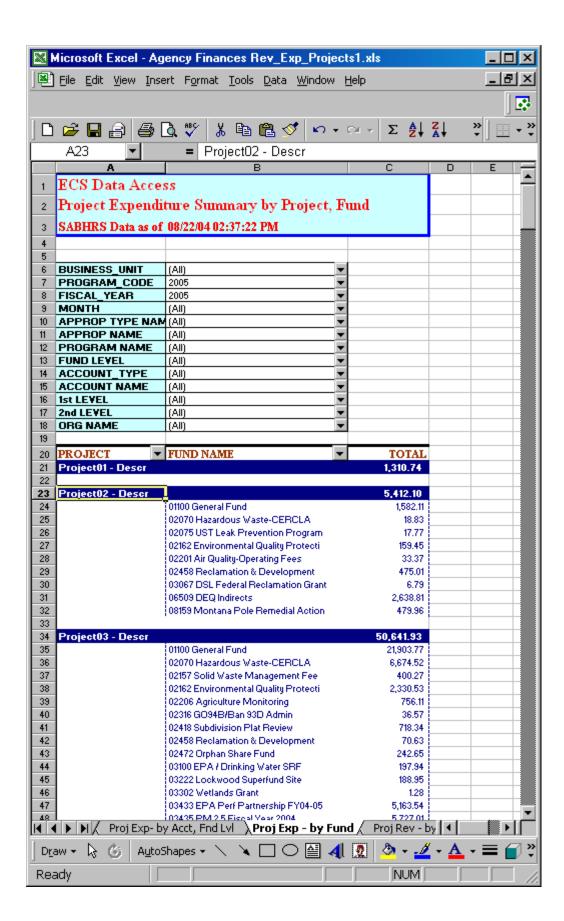
Project id

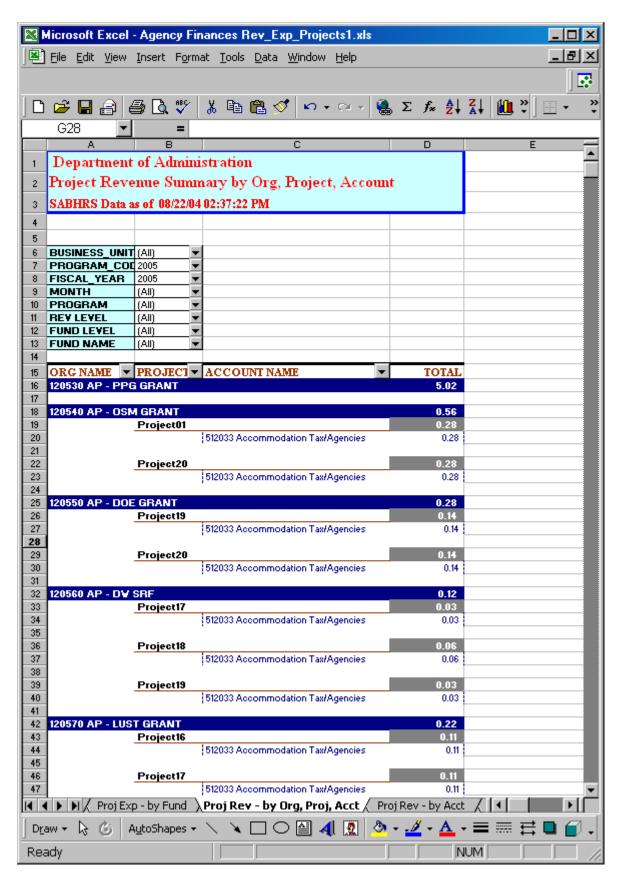
Projects Pivot Tables

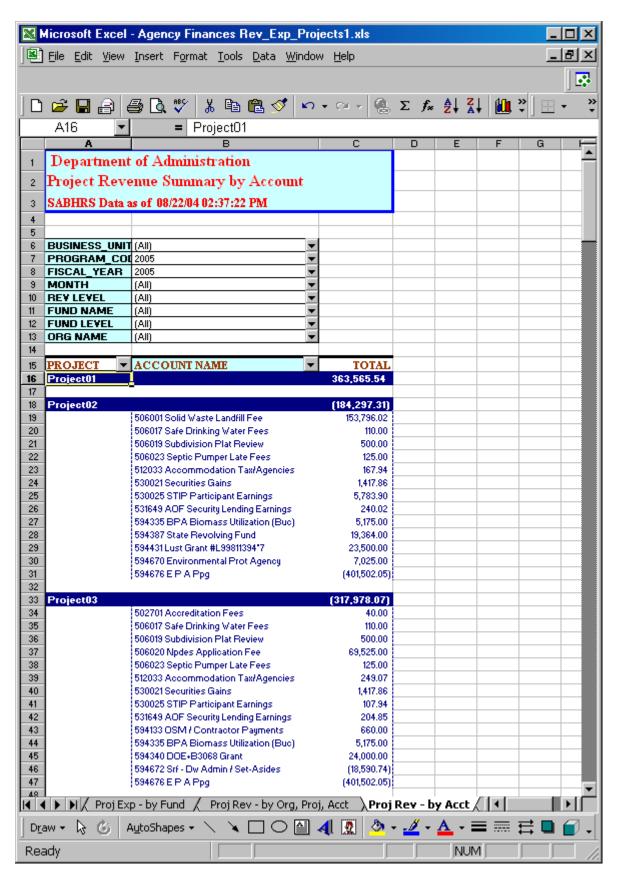


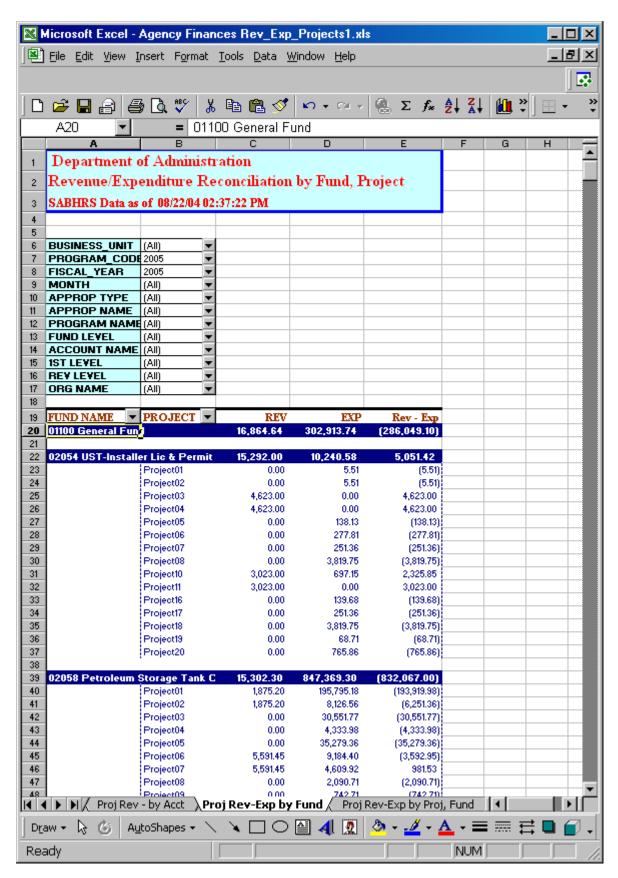


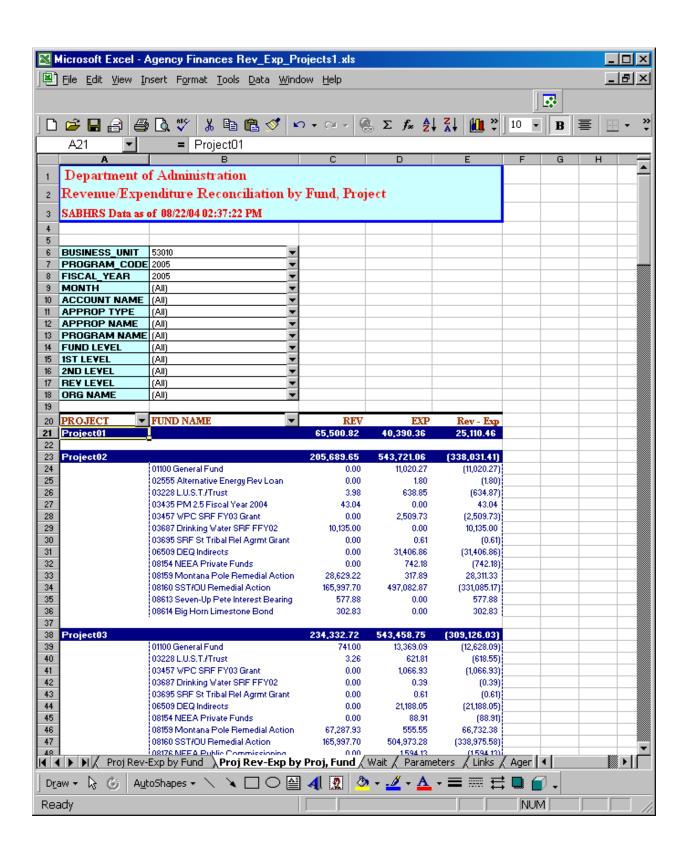












Projects Data Fields

Expenditure data may include these fields:

Business_Unit

Program Code

Fiscal_Year

Account Name

Approp Name

Fund Name

Org Name

Program Name

Total

Month

First Level

Second Level

Approp Type Name

Fund Level

Account_Type

Project_id

Revenue data may include these fields:

Business Unit

Program Code

Fiscal_Year

Account Name

Fund Name

Org Name

Total

Month

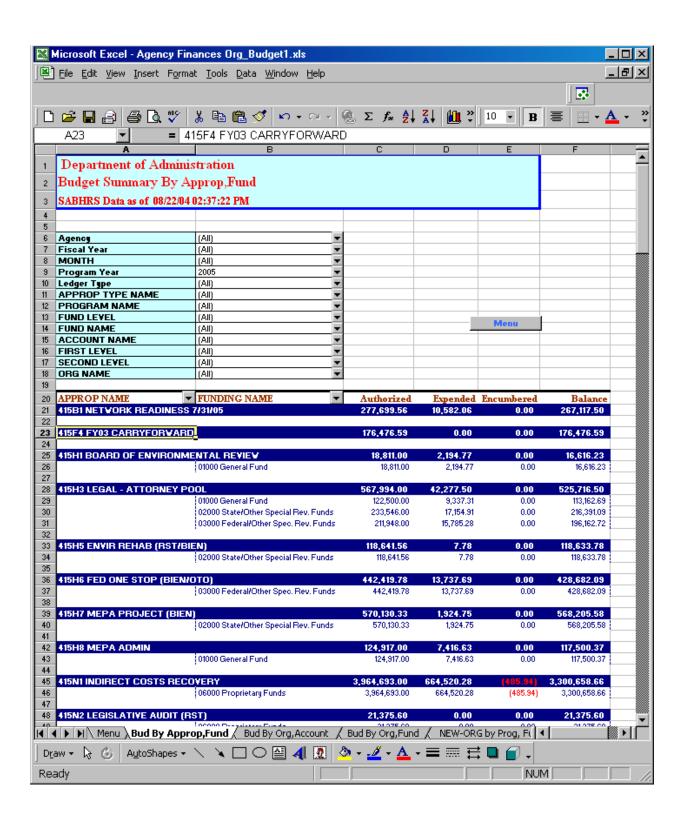
Rev Level

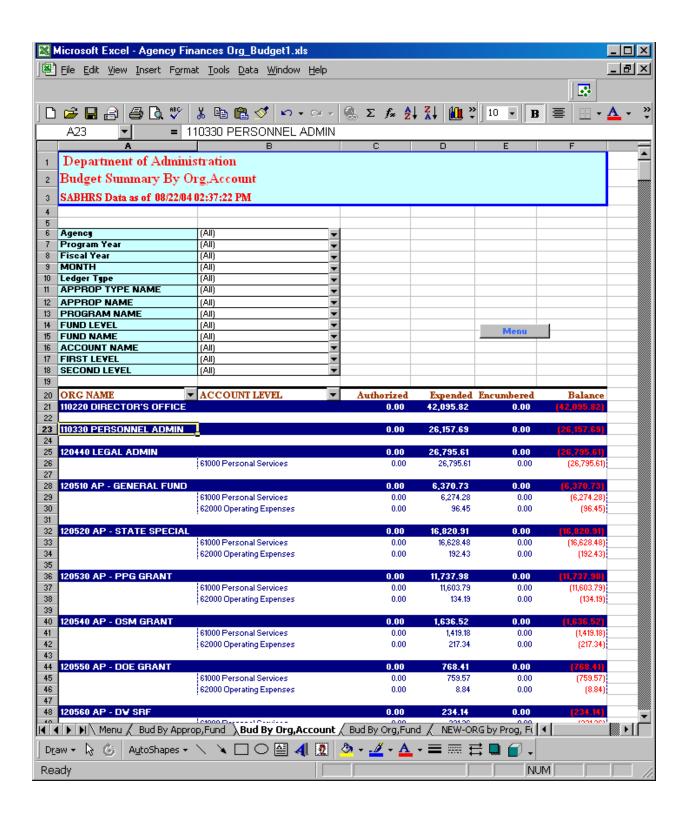
Fund Level

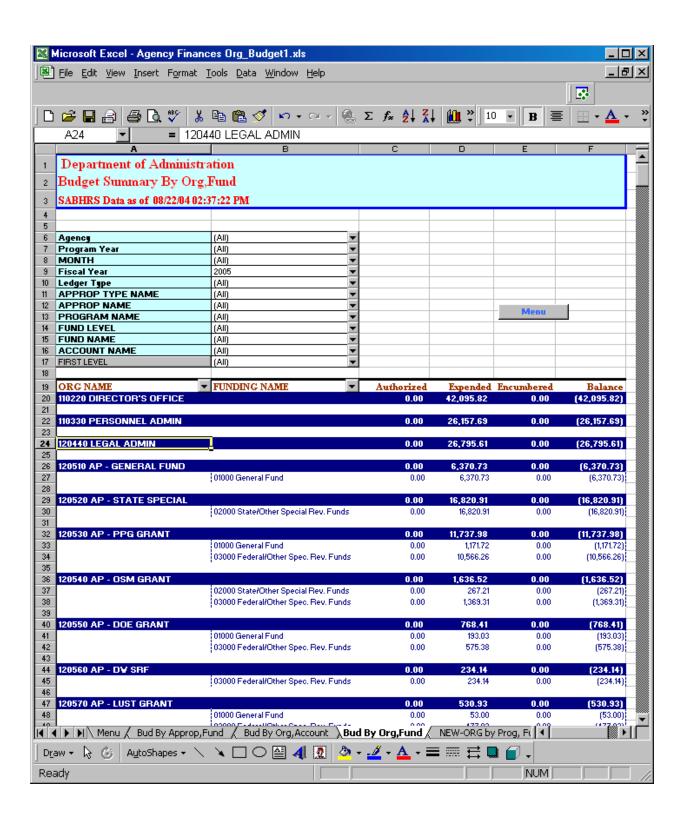
Funding Name

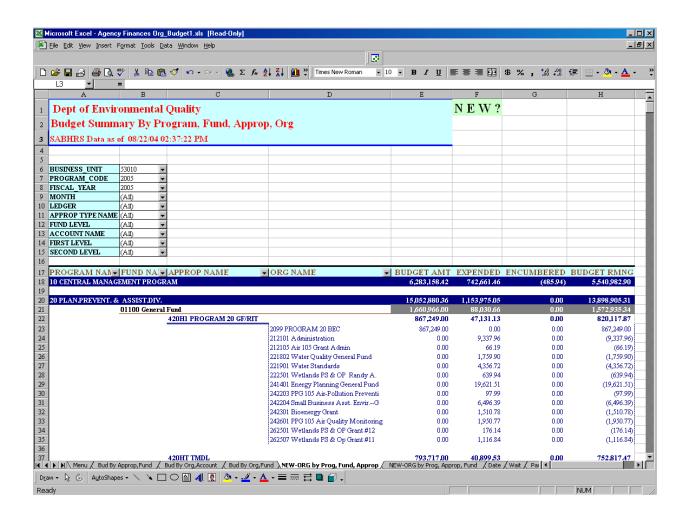
Project id

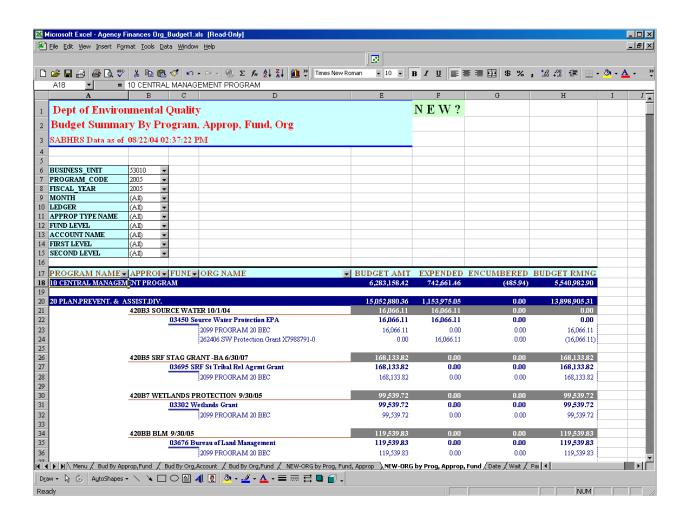
Org Budget Pivot Tables











Org Budget Data Fields

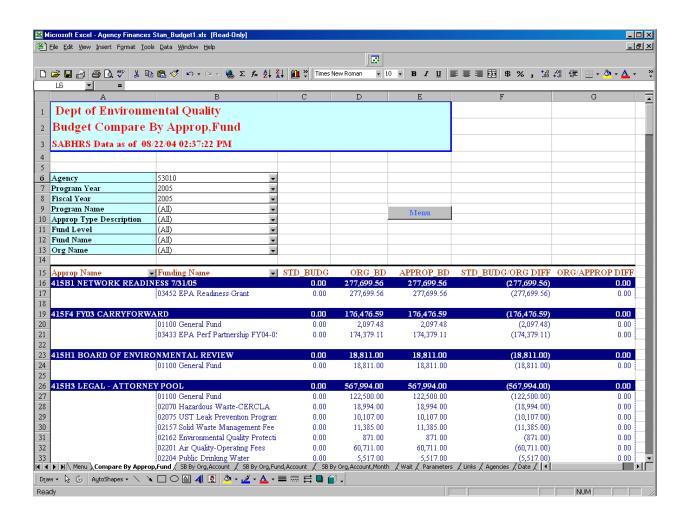
Org Budget Data may include these fields:

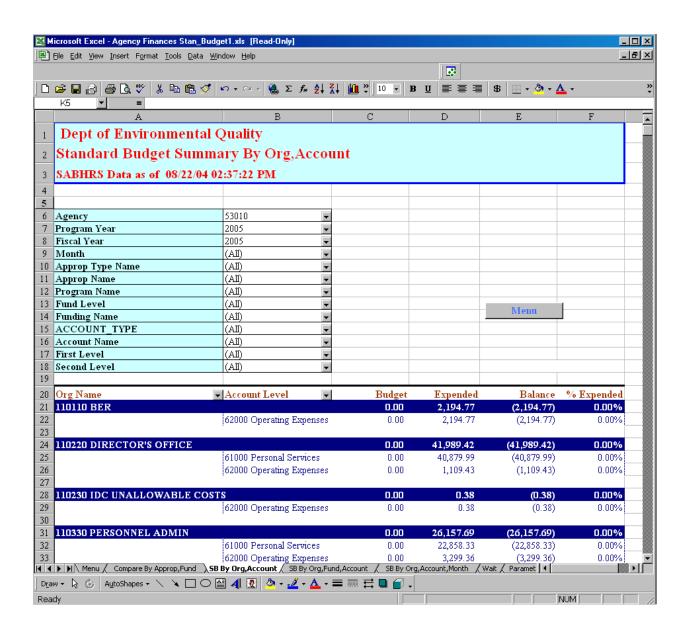
Business_unit Fund level
Ledger Month
Program_code Posted_total
Fiscal_year Posted_enc
Account name Budget
Fund name Total

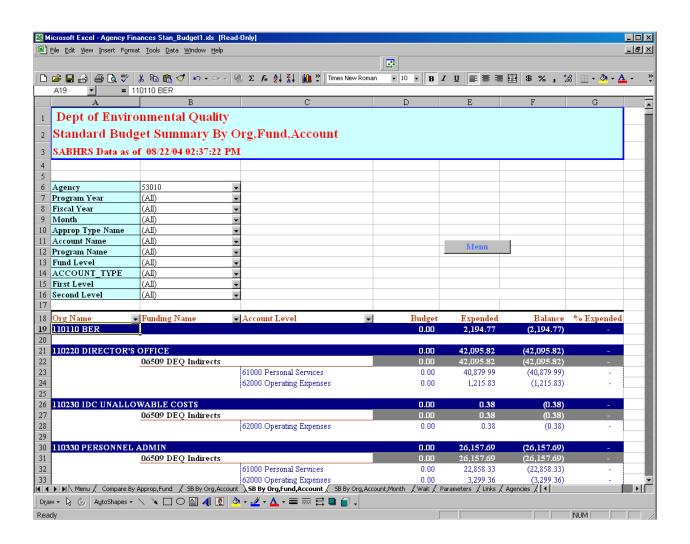
Org name Approp type name

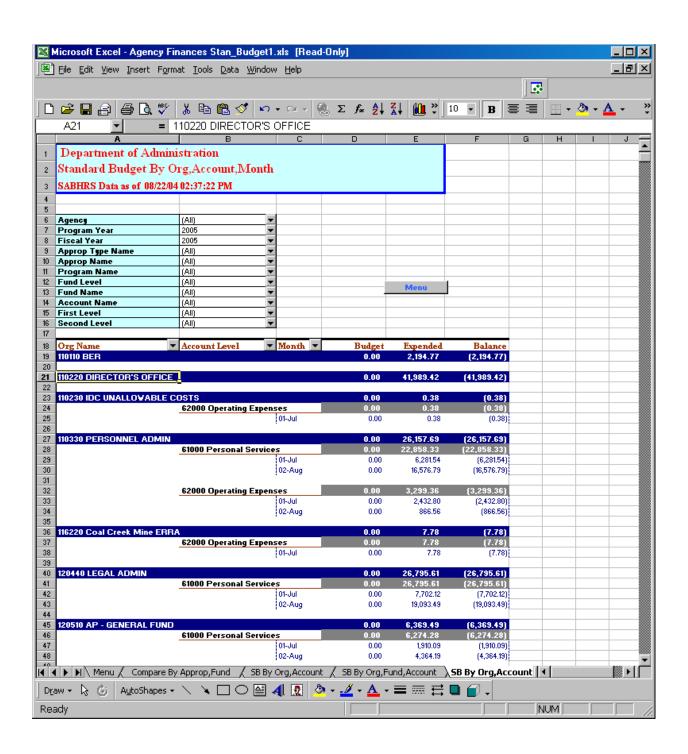
Approp name Second level
Program name Account level
First level Funding name

Standard Budgets Pivot Tables









Std Budget Data Fields

Standard Budget Data may include these fields:

Busi	nes	SS_	Unit

Fiscal_Year Business_Unit

Program_Code Ledger
Month Account

Budget Program_Code
Posted_Total Fiscal_Year
Posted_Enc Program Name
Account Name Account Name
Approp Name Org Name
Fund Name
Fund Name

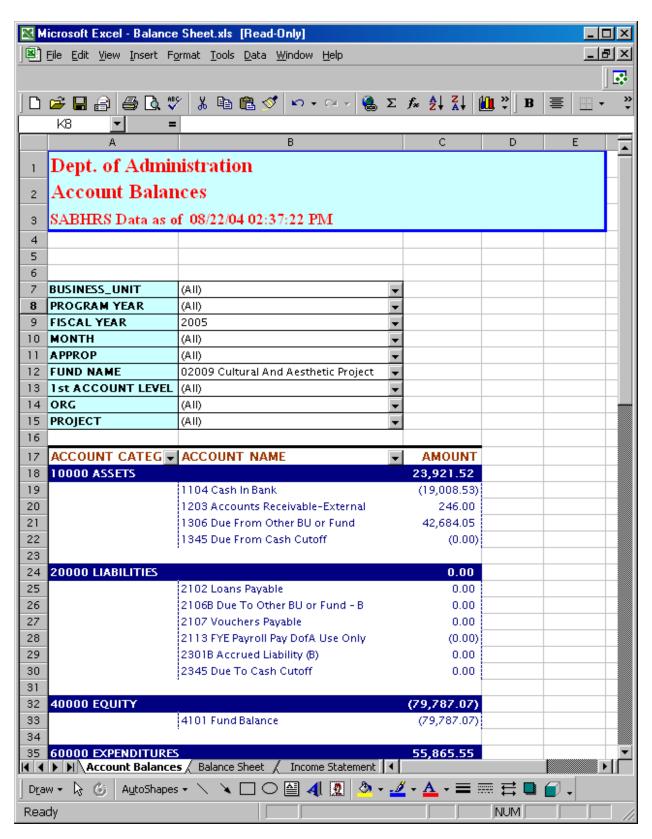
Org Name Approp Name Program Name Total

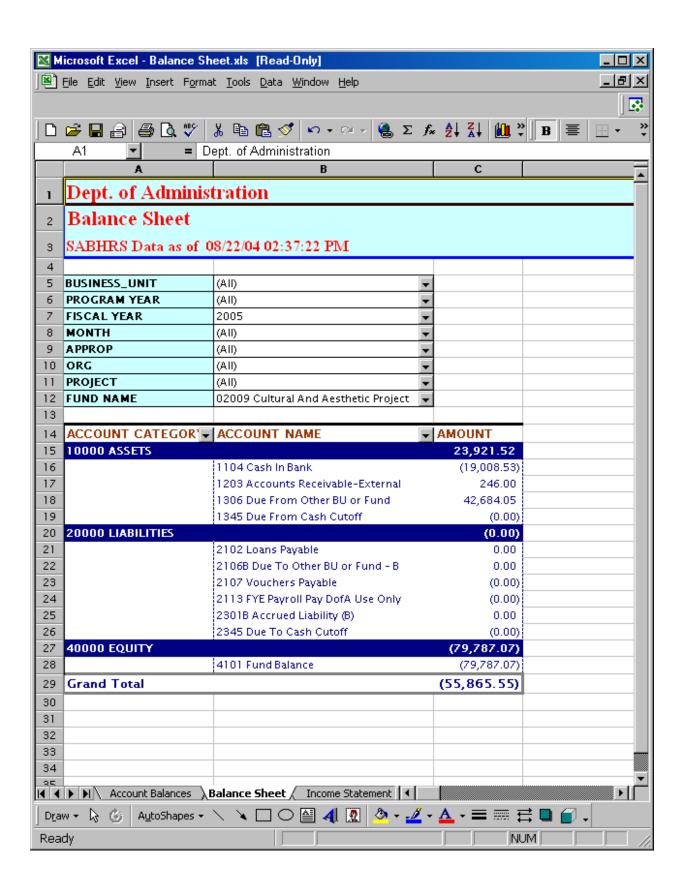
First Level Fund Level
Second Level Approp Type
Approp Type Name Description
Fund Level Funding Name

Account_Type Std_Budg
Projected Org_Bd
Account Level Approp Bd

Funding Name

Balance Sheet Pivot Table





Balance Sheet Data Fields

Business_Unit Program Year Fiscal Year Account Name Approp Fund Name Org Project Amount Month Account Category

Proposed Names

Data Access Project Montana Data Mine ESC Data Access Technology – xDAT